FILE 'CAPLUS' ENTERED AT 13:19:34 ON 13 AUG 2002
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- TRANSCRIPT "9.trn"

=> s anhydride
        170631 ANHYDRIDE
         27578 ANHYDRIDES
L1   180168 ANHYDRIDE
                (ANHYDRIDE OR ANHYDRIDES)

=> s phospho? or sulfo?
        841816 PHOSPHO?
        323927 SULFO?
L2   1148795 PHOSPHO? OR SULFO?

=> s l1 and l2
L3   18645 L1 AND L2

=> s l3 and carboxylic
        187045 CARBOXYLIC
            46 CARBOXYLICS
        187063 CARBOXYLIC
                (CARBOXYLIC OR CARBOXYLICS)
L4   2184 L3 AND CARBOXYLIC

=> s l4 and amine
        222622 AMINE
        207396 AMINES
        340793 AMINE
                (AMINE OR AMINES)
L5   387 L4 AND AMINE

=> s l5 and mixed
        671364 MIXED
             6 MIXEDS
        671368 MIXED
                (MIXED OR MIXEDS)
L6   50 L5 AND MIXED

=> d 1-5

L6   ANSWER 1 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN   2002:283003 CAPLUS
DN   137:93427
TI   Synergistic effect in the catalysis by pyridine N-oxide-triethylamine
     mixture of acyl transfer processes with participation of benzoyl,
     diethoxyphosphinoyl, and p-toluenesulfonyl chlorides
AU   Belousova, I. A.; Savelova, V. A.; Simanenko, Yu. S.; Panchenko, B. V.
CS   Litvinenko Institute of Physical Organic and Coal Chemistry, National
     Academy of Sciences of Ukraine, Donetsk, 83114, Ukraine
SO   Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi
     Khimii) (2002), 38(1), 111-114
     CODEN: RJOCEQ; ISSN: 1070-4280
PB   MAIK Nauka/Interperiodica Publishing
DT   Journal
LA   English
RE.CNT 17   THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6   ANSWER 2 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN   2001:814004 CAPLUS
DN   135:341136
TI   Preparation of luminescent-doped inorganic nanoparticles and usage as
     labels for biomolecule probes

IN Hoheisel, Werner; Petry, Christoph; Bohmann, Kerstin; Haase, Markus; Riwotzki, Karsten
PA Bayer A.-G., Germany
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10106643	A1	20011108	DE 2001-10106643	20010212
WO 2001086299	A2	20011115	WO 2001-EP4545	20010423
WO 2001086299	A3	20020523		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI DE 2000-10021674 A1 20000505
DE 2001-10106643 A 20010212

L6 ANSWER 3 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 2001:730844 CAPLUS
DN 135:257988
TI Resins curable with actinic radiation, process for the production thereof, and photo- and thermo-setting resin composition
IN Nishikubo, Tadatomi; Kameyama, Atsushi; Sasaki, Masaki; Kusama, Masatoshi
PA Kanagawa University, Japan; Taiyo Ink Manufacturing Co., Ltd.
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072857	A1	20011004	WO 2001-JP2487	20010327

W: CA, CN, IN, JP, KR, SG, US, VN
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

PRAI JP 2000-90897 A 20000329
JP 2000-373400 A 20001207
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 2000:475480 CAPLUS
DN 133:106630
TI The use of polyether hydroxycarboxylate copolymer process aid in textile manufacturing and treating processes
IN Rodrigues, Klein A.; Carrier, Allen M.; Hazlewood, Michael C.
PA National Starch and Chemical Investment Holding Corporation, USA
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1018572	A1	20000712	EP 1999-124919	19991214

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO
US 6369023 B1 20020409 US 1999-225768 19990105
PRAI US 1999-225768 A 19990105
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1999:725666 CAPLUS
DN 132:108283
TI Synthesis of L-2-(N-pteroylamino)-3-(N-**phosphonoacetyl**)aminopropanoic acid as an analogue of the putative **phosphorylated** intermediate in the .gamma.-glutamation of folic acid by folylpolyglutamate synthetase
AU Forsch, Ronald; Bader, Henry; Rosowsky, Andre
CS Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA, 02115, USA
SO Pteridines (1999), 10(1), 39-46
CODEN: PTRDEO; ISSN: 0933-4807
PB International Society of Pteridinology
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 6-10

L6 ANSWER 6 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1999:575146 CAPLUS
DN 131:188739
TI The use of polyalkylene oxide-based graft polymers as plasticizer for aluminate cement-containing binder suspensions
IN Wache, Steffen; Wutz, Konrad; Bichler, Manfred
PA SKW Trostberg A.-G., Germany
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19808314	A1	19990902	DE 1998-19808314	19980227

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1999:498285 CAPLUS
DN 131:145266
TI Method for manufacture of heat-resistant resin precursors with low chlorine ion content and photosensitive compositions containing them
IN Tomikawa, Masao; Yoshida, Tomoyuki; Miura, Yasuo
PA Toray Industries, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11217434	A2	19990810	JP 1997-344717	19971215
PRAI JP 1997-324192		19971126		

L6 ANSWER 8 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1999:394671 CAPLUS

DN 131:60117
TI Low-temperature curable polyimide precursors, their manufacture, and polyimides having excellent adhesion for color filters
IN Taniguchi, Masaharu; Tomita, Fumio; Kajita, Junji
PA Toray Industries, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11166050	A2	19990622	JP 1997-332910	19971203

L6 ANSWER 9 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1997:315083 CAPLUS
DN 126:343228
TI Mechanism of Polyphosphoric Acid and **Phosphorus** Pentoxide-Methanesulfonic Acid as Synthetic Reagents for Benzoxazole Formation
AU So, Ying-Hung; Heeschen, Jerry P.
CS Central Research Development, Dow Chemical Company, Midland, MI, 48674, USA
SO Journal of Organic Chemistry (1997), 62(11), 3552-3561
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English

L6 ANSWER 10 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1997:80539 CAPLUS
DN 126:89941
TI Water-soluble polymers and compositions for separation of metals from aqueous streams
IN Smith, Barbara F.; Robison, Thomas W.; Gohdes, Joel W.
PA Regents of the University of California, USA; Smith, Barbara F.; Robison, Thomas W.; Gohdes, Joel W.
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9638493	A1	19961205	WO 1996-US8188	19960530
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
	US 5891956	A	19990406	US 1995-454451	19950530
	CA 2221618	AA	19961205	CA 1996-2221618	19960530
	AU 9659599	A1	19961218	AU 1996-59599	19960530
	EP 828779	A1	19980318	EP 1996-916867	19960530
	EP 828779	B1	20000913		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1186506	A	19980701	CN 1996-194346	19960530
	JP 11506488	T2	19990608	JP 1996-536710	19960530
	BR 9608743	A	19991207	BR 1996-8743	19960530
	AT 196305	E	20000915	AT 1996-916867	19960530
	ES 2152529	T3	20010201	ES 1996-916867	19960530
PRAI	US 1995-454451	A	19950530		

WO 1996-US8188 W 19960530

=> d his

(FILE 'HOME' ENTERED AT 13:19:29 ON 13 AUG 2002)

FILE 'CAPLUS' ENTERED AT 13:19:34 ON 13 AUG 2002

L1 180168 S ANHYDRIDE
L2 1148795 S PHOSPHO? OR SULFO?
L3 18645 S L1 AND L2
L4 2184 S L3 AND CARBOXYLIC
L5 387 S L4 AND AMINE
L6 50 S L5 AND MIXED

=> s l5 and chlorocarbonate
1233 CHLOROCARBONATE
162 CHLOROCARBONATES
1325 CHLOROCARBONATE
(CHLOROCARBONATE OR CHLOROCARBONATES)
L7 2 L5 AND CHLOROCARBONATE

=> d 1-2

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 1996:137589 CAPLUS
DN 124:202006
TI Preparation of azaspiroheptane and azaspirooctane derivatives as intermediates for antibacterial quinolonecarboxylic acid derivatives
IN Kin, Kanchu; Boku, Meikan; Kawa, Zaito; Haku, Keigyo
PA Korea Res Inst Chem Tech, Japan
SO Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07300460	A2	19951114	JP 1992-358726	19921228

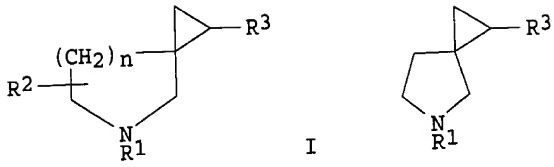
OS MARPAT 124:202006

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 1939:26801 CAPLUS
DN 33:26801
OREF 33:3814a-i
TI N-Acyl urethans
PA J. R. Geigy A.-G.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 497506		19381221	GB	

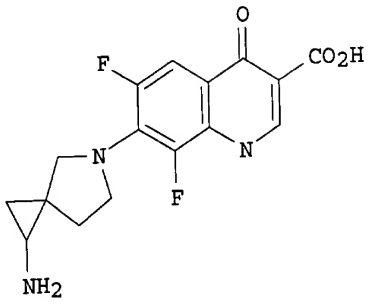
=> d abs 1

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
GI



I

II



III

AB The title compds. [I; R1 = H, (un)substituted C1-20 alkyl or CH2Ph, N-protective group; R2 = H, Me preferably substituted at 4- or 6-C atom; R3 = CO2H, CON3, isocyanato, CONHR10, (CH2)mY; wherein R10 = H, benzyl, C1-8 alkyl, C1-5 alkoxycarbonyl; m = 0,1; Y = HO, C2-5 acyloxy, MeO, p-toluenesulfonyloxy, NH2 substituted with one or two C1-4 alkyl, one C1-4 alkanoyl, one CH2Ph, or N-protective group metabolizable in vivo; the R3-attached C atom is chiral and the stereochem. configuration is (1R,3S), (1R,3R), (1S,3S), or (1S,3R)] are prepd. Thus, 5.5 g 1-benzyloxycarbonyl-3-methylenepyrrolidine and 55 mg rhodium acetate dimer were added to 20 mL cyclohexane and the resulting mixt. was refluxed, followed by adding a soln. of 6.4 mL Et diazoacetate in 20 mL cyclohexane over 10 h, and the reaction mixt. was filtered and evapd. in vacuo to give, after silica gel chromatog., 5-azaspiro[2,4]heptane (II; R1 = CO2CH2Ph, R3 = CO2Et). This compd. was sapond. with a mixt. of 5% aq. NaOH and EtOH to give, after acidification with 2 N aq. HCl, II (R1 = CO2CH2Ph, R3 = CO2H), which (12 g) was dissolved in acetone, treated dropwise with 4.9 g Et3N over 5 min and then with a soln. of 5.2 g Et **chlorocarbonate** in 15 mL acetone at -5.degree. to 0.degree. over 30 min, stirred for 15 min, treated with a soln. of 5.2 g NaN3 in 15 mL H2O at the same temp. over 20 min, stirred for 30 min, and extd. with toluene to give, the azide II (R1 = CO2CH2Ph, R3 = CON3). The latter compd. (11.0 g) was dissolved in anhyd. toluene and refluxed to give the isocyanate II (R1 = CO2CH2Ph, R3 = isocyanato), which (9.0 g) was cooled, treated with 60 mL 8 N aq. HCl, gradually warmed, and refluxed for 10 min to give 89.9% II.2HCl (R1 = H, R3 = NH2). This compd. 1, 1-cyclopropyl-6,7,8-trifluoro-1,4-dihydro-4-oxoquinoline-3-**carboxylic** acid 1.28, and DBU 2.4 g were dissolved in MeCN and refluxed for 3 h to give the oxoquinoline-3-**carboxylic** acid deriv. (III), which showed min. inhibitory concn. of 0.195, 0.098, 0.025, and 0.013 .mu.g/mL against Streptococcus pyogenes 308A, S. faecium 77A, Staphylococcus aureus 285, and Salmonella typhimurium, resp.

=> d abs 2

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AB Urethans of formula R(acyl)NCO2R' are prepd. by treating urethans of formula RN(H)CO2R' with acylating agents; R is a substituted or unsubstituted aliphatic or hydroaromatic radical and R' is a substituted or unsubstituted alkyl, aralkyl, cycloalkyl or aryl residue. The term acyl includes the residue of a satd. or unsatd. **carboxylic** acid which may also contain hetero atoms or hetero atom groupings such as O, S

and N and which may be further substituted, particularly by H2O-solubilizing groups. At least 1 of the groups R, R' or acyl must be an aliphatic or alicyclic residue contg. more than 8 C atoms. The acylation is preferably conducted in the presence of heat with fatty acid halides, with or without a solvent; acid-binding agents may also be present. H2O-soly. of the compds. is produced by the introduction of the SO3H group. Among examples, Me undecylcarbamate, made by decompg. undecylamine with Me **chlorocarbonate**, is dissolved in PhMe and treated with phenoxyacetyl chloride for 12 hrs., and evapd. to dryness, finally under reduced pressure, to yield Me N-phenoxyacetyl-N-undecylcarbamate, which may be converted into a H2O-sol. product by treatment 1st with 100% H2SO4 and then with oleum. Brit. 497,572, Dec. 21, 1938. Divided on 497,506 (above). N-Acyl urethans of formula RN(acyl)COOR' are prepd. by treating urethans of formula RNHCOOR' with halogen-substituted fatty acids, their halides, esters or **anhydrides** contg. exchangeable halogen. R' is a substituted or unsubstituted alkyl, aralkyl, cycloalkyl or aryl residue and R is a substituted or unsubstituted aliphatic or hydroaromatic radical. The term acyl includes the residue of a satd. or unsatd. **carboxylic** acid that contains an exchangeable halogen atom. At least 1 of the groups R, R' and acyl must be an aliphatic or alicyclic residue contg. more than 8 C atoms. The acylation is preferably conducted by treating the urethans with halo fatty acid halides with or without a solvent, e. g., C6H6 or PhMe. Acid-binding agents, e. g., pyridine or diethylaniline, may also be present. The exchangeable halogen atom may be replaced by univalent atom groupings such as -OR'', -SR'' or -NR'', where R'' may be an org. or inorg. substituent. -OR'' may be -OH, -OSO2H or the residues of aliphatic, hydroaromatic, aliphatic-aromatic or aromatic hydroxy compds., such as of MeOH, EtOH, benzyl alc., cyclohexanol, phenols or phenolsulfonic acids. Examples of this subgroup of acyl urethans include the reaction products of Me N-chloroacetyl-N-undecylcarbamate and PhONa and of Et N-chloroacetyl-N-heptadecylcarbamate and the mono-Na salt of glycerol. The group -SR'' may be -SH, -S2O3H, -SO3H or radicals of mercaptans. Examples of this subgroup include the reaction products of Me N-chloroacetyl-N-laurylcarbamate with PhSH, NaHS, Na2S2O3 and NaHSO3. The group -NR'' may be the primary or secondary amino group. Examples of this subgroup include the reaction products of alkyl N-chloroacetyl-N-heptadecylcarbamates with NHMe2, methylaniline or taurine. H2O-sol. compds. contg. quadrivalent N atoms are obtained by the addn. of tertiary **amines**, or by complete alkylation or aralkylation of the acyl urethan derivs. made with NH3 or primary or secondary **amines** or with esters of low-mol. alcs., e. g., Me2SO4. H2O-soly. may also be induced by the use of compds. that introduce the SO3H group, e. g., sulfites, CH2O-sulfites, thiosulfates and aliphatic or aromatic **sulfonic** acids bearing OH or amino groups. H2O-soly. may also be produced by after-**sulfonation**. Among examples, chloroacetyl chloride is added to the urethan obtained from NH2Me and the chloroformic ester of dodecyl alc. to give dodecyl N-chloroacetyl-N-methylcarbamate, which is then treated with aq. Na2SO3 to give a H2O-sol. product.

```
=> s l5 and mixed anhydride
        671364 MIXED
             6 MIXEDS
        671368 MIXED
                 (MIXED OR MIXEDS)
        170631 ANHYDRIDE
         27578 ANHYDRIDES
        180168 ANHYDRIDE
                 (ANHYDRIDE OR ANHYDRIDES)
          3774 MIXED ANHYDRIDE
                 (MIXED(W)ANHYDRIDE)
L9           9 L5 AND MIXED ANHYDRIDE

=> d 1-9
```

L9 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1997:315083 CAPLUS
DN 126:343228
TI Mechanism of Polyphosphoric Acid and **Phosphorus** Pentoxide-Methanesulfonic Acid as Synthetic Reagents for Benzoxazole Formation
AU So, Ying-Hung; Heeschen, Jerry P.
CS Central Research Development, Dow Chemical Company, Midland, MI, 48674, USA
SO Journal of Organic Chemistry (1997), 62(11), 3552-3561
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English

L9 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1995:875024 CAPLUS
DN 124:86585
TI Reactive derivatives of BAPTA used to make ion-selective chelators
IN Kuhn, Michael A.; Haugland, Richard P.
PA Molecular Probes, Inc., USA
SO U.S., 29 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5453517	A	19950926	US 1992-843360	19920225
	US 5723218	A	19980303	US 1995-484151	19950607
PRAI	US 1990-509360		19900416		
	US 1990-629466		19901218		
	US 1991-786767		19911101		
	US 1992-843360		19920225		
	US 1992-882299		19920513		
	US 1993-28319		19930308		
	US 1993-38918		19930329		
	US 1993-45758		19930408		
	US 1994-246790		19940520		
	US 1994-246847		19940520		
	US 1994-247013		19940520		
	US 1994-247108		19940520		
	US 1995-375360		19950119		
	US 1995-384945		19950206		

OS MARPAT 124:86585

L9 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1994:686404 CAPLUS
DN 121:286404
TI 1994 Syntex Award Lecture. Anionic electrophiles, protein modification, and artificial blood
AU Kluger, Ronald
CS Dep. Chem., Univ. Toronto, Toronto, ON, M5S 1A1, Can.
SO Can. J. Chem. (1994), 72(11), 2193-7
CODEN: CJCHAG; ISSN: 0008-4042
DT Journal; General Review
LA English

L9 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1991:247788 CAPLUS
DN 114:247788
TI Peptide derivatives preparation as retroviral protease inhibitors
IN Kempf, Dale J.; Plattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven

R.
PA Abbott Laboratories, USA
SO PCT Int. Appl., 222 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 8910752	A1	19891116	WO 1989-US2055	19890512
W: AU, DK, JP, KR, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
EP 342541	A2	19891123	EP 1989-108590	19890512
EP 342541	A3	19911106		
R: ES, GR				
AU 8935660	A1	19891129	AU 1989-35660	19890512
EP 415981	A1	19910313	EP 1989-905856	19890512
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03504247	T2	19910919	JP 1989-506033	19890512
PRAI US 1988-194678		19880513		
WO 1989-US2055		19890512		

OS MARPAT 114:247788

L9 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1978:529919 CAPLUS
DN 89:129919
TI Peptides. X. Diethyl **phosphorobromidate** - an effective new peptide-forming agent
AU Gorecka, A.; Leplawy, M.; Zabrocki, J.; Zwierzak, A.
CS Inst. Org. Chem., Tech. Univ. Lodz, Lodz, Pol.
SO Synthesis (1978), (6), 474-6
CODEN: SYNTBF; ISSN: 0039-7881
DT Journal
LA English

L9 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1971:87097 CAPLUS
DN 74:87097
TI Mixed **sulfonic-carboxylic anhydrides**. II. Reactions with aliphatic ethers and **amines**
AU Mazur, Yehuda; Karger, Michael H.
CS Dep. Chem., Weizmann Inst. Sci., Rehovoth, Israel
SO J. Org. Chem. (1971), 36(4), 532-40
CODEN: JOCEAH
DT Journal
LA English

L9 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1969:37560 CAPLUS
DN 70:37560
TI Derivatives of 10', 11'-Dihydrospiro[cyclopropane-1,5'-5'H-dibenzo[a,d]cycloheptene]and spiro[cyclopropane-1,9'-fluorene]
PA Smith Kline and French Laboratories
SO Brit., 7 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1129718		19681009		
PRAI US		19651019		
US		19660307		

L9 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1961:17629 CAPLUS
DN 55:17629
OREF 55:3457e-i,3458a-i,3459a-f
TI Amino acids and peptides. XV. Racemization during peptide synthesis
AU Smart, N. A.; Young, G. T.; Williams, M. W.
CS Univ. Oxford, UK
SO J. Chem. Soc. (1960) 3902-12
DT Journal
LA Unavailable

L9 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1955:28036 CAPLUS
DN 49:28036
OREF 49:5403e-i,5404a
TI Studies of trifluoroacetic acid. X. The mechanism of syntheses effected by solutions of oxyacids in trifluoroacetic **anhydride**
AU Bourne, E. J.; Randles, J. E. B.; Stacey, M.; Tatlow, J. C.; Tedder, J. M.
CS Univ. Birmingham, UK
SO J. Am. Chem. Soc. (1954), 76, 3206-8
DT Journal
LA Unavailable

=> d abs 5

L9 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB Three amides and 7 peptides were prepd. in 78-99% yields by condensing the acid and **amine** components by BrP(O)(OEt)2 (I), a new and inexpensive reagent for racemization-free peptide coupling. I reacts with the acid component at -15.degree. to form a reactive di-Et **phosphoric-carboxylic mixed anhydride** which is amidated with the **amine** component to give the desired amide or peptide. I was prepd. by brominating P(OEt)3 at -30.degree. to -20.degree..

=> d abs 6

L9 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB The powerful acylating ability of mixed **sulfonic-carboxylic** an-hydrides is demonstrated by their facile cleavage of ethers. The nature of this cleavage process is discussed and its distinction and advantages over acyl halide cleavage indicated. Potential syn-thetic uses of this reaction are pointed out and a brief summary of the results with **amines** is included.

=> d abs 3

L9 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB A review discussion with 26 refs. Monomethyl esters of acyl phosphates (**mixed anhydrides** of **carboxylic** and **phosphoric** acids) are being developed as site-directed acylating agents for amino groups in proteins. In an illustrative application, these anionic materials are shown to bind to a pos. charged region of Hb where they convert amino groups to amides. Bifunctional acyl Me phosphates crosslink Hb to give a variety of products, some of which have the oxygen-binding properties anticipated for materials that can serve as an alternative to red cells in transfusions. Higher yields of desired products result from the use of a trifunctional analog. Kinetic patterns of the reactions of a series of alkyl **amines** and Me aroyl phosphates indicate that the transition state for formation of the amide involves almost complete development of pos. charge on nitrogen.

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=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    22.59      55.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -1.86      -3.10

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 14:19:32 ON 13 AUG 2002
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STRUCTURE FILE UPDATES:   12 AUG 2002  HIGHEST RN 443729-39-3
DICTIONARY FILE UPDATES:  12 AUG 2002  HIGHEST RN 443729-39-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s tosyl chloride/cn
L1            1 TOSYL CHLORIDE/CN

=> d

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2002 ACS
RN   98-59-9  REGISTRY
CN   Benzenesulfonyl chloride, 4-methyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   p-Toluenesulfonyl chloride (8CI)
OTHER NAMES:
CN   4-Methylbenzenesulfonyl chloride
CN   4-Methylphenylsulfonyl chloride
CN   4-Toluenesulfonyl chloride
CN   4-Tosyl chloride
CN   p-Methylbenzenesulfonyl chloride
CN   p-Methylphenylsulfonyl chloride
CN   p-Toluenesulfochloride
CN   p-Toluenesulfonic acid chloride
CN   p-Toluenesulfonic chloride
CN   p-Toluenesulphonyl chloride
CN   p-Tolylsulfonyl chloride
CN   p-Tosyl chloride
CN   Toluenesulfonyl chloride
CN   Tosyl chloride
FS   3D CONCORD
MF   C7 H7 Cl O2 S
CI   COM
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
       CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
       CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*,
       IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*,
       PIRA, PROMT, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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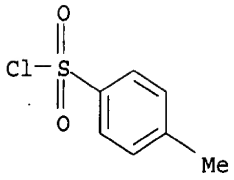


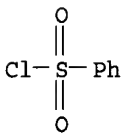
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5440 REFERENCES IN FILE CA (1967 TO DATE)
78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5448 REFERENCES IN FILE CAPLUS (1967 TO DATE)
35 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s phenylsulfonyl chloride/cn
L2 1 PHENYLSULFONYL CHLORIDE/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 98-09-9 REGISTRY
CN Benzenesulfonyl chloride (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Benzene sulfochloride
CN Benzenesulfonic chloride
CN **Phenylsulfonyl chloride**
FS 3D CONCORD
DR 114415-79-1
MF C6 H5 Cl O2 S
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2827 REFERENCES IN FILE CA (1967 TO DATE)
79 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2830 REFERENCES IN FILE CAPLUS (1967 TO DATE)
26 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.54	11.75

FILE 'CAPLUS' ENTERED AT 14:20:19 ON 13 AUG 2002
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FILE COVERS 1907 - 13 Aug 2002 VOL 137 ISS 7
FILE LAST UPDATED: 12 Aug 2002 (20020812/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s l1 or l2
          5448 L1
          2830 L2
L3        7305 L1 OR L2

=> s l3 and anhydride
        170631 ANHYDRIDE
         27578 ANHYDRIDES
        180168 ANHYDRIDE
                  (ANHYDRIDE OR ANHYDRIDES)
L4        801 L3 AND ANHYDRIDE

=> s l4 and mixed
        671364 MIXED
             6 MIXEDS
        671368 MIXED
                  (MIXED OR MIXEDS)
L5         53 L4 AND MIXED

=> s l5 and carboxylic
        187045 CARBOXYLIC
            46 CARBOXYLICS
        187063 CARBOXYLIC
                  (CARBOXYLIC OR CARBOXYLICS)
L6         15 L5 AND CARBOXYLIC

=> d 1-15

L6   ANSWER 1 OF 15  CAPLUS  COPYRIGHT 2002 ACS
AN   2002:283003  CAPLUS
DN   137:93427
TI   Synergistic effect in the catalysis by pyridine N-oxide-triethylamine
     mixture of acyl transfer processes with participation of benzoyl,
     diethoxyphosphinoyl, and p-toluenesulfonyl chlorides
AU   Belousova, I. A.; Savelova, V. A.; Simanenko, Yu. S.; Panchenko, B. V.
CS   Litvinenko Institute of Physical Organic and Coal Chemistry, National
```

Academy of Sciences of Ukraine, Donetsk, 83114, Ukraine
SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2002), 38(1), 111-114
CODEN: RJOCEQ; ISSN: 1070-4280
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2001:128886 CAPLUS
DN 134:296058
TI Simple and efficient method for synthesis of Z-/Boc-amino acid amides using p- toluenesulphonyl chloride
AU Ananda, Kuppanna; Vasanthakumar, Ganga-Ramu; Babu, Vommina V. Suresh
CS Department of Studies in Chemistry, Central College, Bangalore University, Bangalore, 560 001, India
SO Protein and Peptide Letters (2001), 8(1), 45-48
CODEN: PPELEN; ISSN: 0929-8665
PB Bentham Science Publishers
DT Journal
LA English
OS CASREACT 134:296058
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2001:91539 CAPLUS
DN 134:147610
TI Compositions containing N-amino- and N-hydroxy-quinazolinones and methods for preparing combinatorial libraries thereof
IN Gao, Yun
PA Sepracor Inc., USA
SO U.S., 15 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6184377	B1	20010206	US 1997-990855	19971215
	US 2001018518	A1	20010830	US 2001-775339	20010201
	US 6429311	B2	20020806		
PRAI	US 1997-990855	A1	19971215		

OS MARPAT 134:147610
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1999:513654 CAPLUS
DN 131:322786
TI Diterpenoid **carboxylic** acid **anhydrides** of the abietane, pimarane, and isopimarane series
AU Bardyshev, I. I.
CS Institute of Physical Organic Chemistry, National Academy of Sciences of Belarus Republic, Minsk, 220072, Belarus
SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (1999), 35(1), 41-55
CODEN: RJOCEQ; ISSN: 1070-4280
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1994:435186 CAPLUS
DN 121:35186
TI Preparation of hydroxycephamcarboxylic acid esters as intermediates for cephalosporin antibiotics
IN Hamashima, Yoshio; Takami, Fumitaka
PA Shionogi Seiyaku Kk, Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05345786	A2	19931227	JP 1993-39360	19930202
	JP 08026038	B4	19960313		

OS CASREACT 121:35186

L6 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1992:571456 CAPLUS
DN 117:171456
TI Process for producing dioxane derivatives and pharmaceutical compositions comprising same as active ingredient
IN Mikite, Gyula; Petocz, Lujza; Szecsey Hegedus, Maria; Fekete, Marton; Szirt Kiszelly, Eniko; Kapolnai, Laszlo; Furdyga, Eva; Kazo Daroczi, Klara; Sztuhar, Ilona; Zsila, Gizella
PA Hung.
SO Hung. Teljes, 39 pp.
CODEN: HUXXBU
DT Patent
LA Hungarian
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	HU 59123	A2	19920428	HU 1990-5934	19900918

OS CASREACT 117:171456; MARPAT 117:171456

L6 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1991:675263 CAPLUS
DN 115:275263
TI Isothiocyanic acid **mixed anhydride** for amino acid thiohydantoin formation and peptide sequencing
IN Hawke, David H.; Boyd, Victoria
PA Applied Biosystems, Inc., USA
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9109868	A1	19910711	WO 1990-US7567	19901220
	W: JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5049507	A	19910917	US 1989-454666	19891221
	US 5041388	A	19910820	US 1990-547088	19900629
	EP 506846	A1	19921007	EP 1991-902443	19901220
	EP 506846	B1	19950719		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 05500421	T2	19930128	JP 1991-502895	19901220
PRAI	US 1989-454666		19891221		
	US 1990-547088		19900629		

WO 1990-US7567 19901220
OS MARPAT 115:275263

L6 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1990:234482 CAPLUS
DN 112:234482
TI Polymer-catalyzed synthesis of acid **anhydrides**
IN Fife, Wilmer K.; Zhang, Zhi Dong
PA Indiana University Foundation, USA
SO U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 52,439.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4874558	A	19891017	US 1988-284846	19881213
PRAI US 1987-52439		19870521		

OS CASREACT 112:234482; MARPAT 112:234482

L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1987:198022 CAPLUS
DN 106:198022
TI Sizing compositions for paper
IN Emerson, Ralph W.; Feeney, George F.
PA Reichhold Chemicals, Inc., USA
SO Braz. Pedido PI, 20 pp.
CODEN: BPXXDX
DT Patent
LA Portuguese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI BR 8506522	A	19860909	BR 1985-6522	19851226
PRAI US 1985-703983		19850221		

L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1986:206840 CAPLUS
DN 104:206840
TI Preparation of unsymmetrical **carboxylic** acid **anhydrides** from **mixed** sulfonic-**carboxylic anhydrides**
AU Urbanski, Jerzy; Manek, Maria Beata
CS Inst. Org. Mater. Sci., Sch. Eng., Radom, 26600, Pol.
SO Pol. J. Chem. (1984), 58(10-12), 1227-9
CODEN: PJCHDQ; ISSN: 0137-5083
DT Journal
LA English
OS CASREACT 104:206840

RQ'D, FROM STEC-ILL 8/13/02

L6 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1982:422869 CAPLUS
DN 97:22869
TI Esterification of **carboxylic** acids with alcohols using benzenesulfonyl and methanesulfonyl chlorides
AU Dharmaratne, H. R. W.; Gunatilaka, A. A. Leslie; Sotheeswaran, S.
CS Dep. Chem., Univ. Peradeniya, Peradeniya, Sri Lanka
SO Indian J. Chem., Sect. B (1982), 21B(1), 39-41
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English

L6 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1977:107582 CAPLUS
DN 86:107582

TI Polybutene composition containing halogen-containing additives and use thereof
IN Puskas, Imre; Cengel, John A.
PA Standard Oil Co. (Indiana), USA
SO U.S., 5 pp. Division of U.S. 3,954,812.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4008168	A	19770215	US 1975-633454	19751119
	US 3954812	A	19760504	US 1973-358911	19730510
PRAI	US 1973-358911		19730510		

L6 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1974:18768 CAPLUS
DN 80:18768
TI Silicate foams
IN Von Bonin, Wulf; Nehen, Ulrich; Von Gizycki, Ulrich
PA Bayer A.-G.
SO Ger. Offen., 36 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2165912	A1	19730705	DE 1971-2165912	19711231
	US 3850650	A	19741126	US 1972-318068	19721226
	BE 793516	A1	19730629	BE 1972-125990	19721229
	NL 7217840	A	19730703	NL 1972-17840	19721229
	FR 2169895	A1	19730914	FR 1972-46954	19721229
	IT 974410	A	19740620	IT 1972-55146	19721229
	JP 48078226	A2	19731020	JP 1973-4211	19721230
	GB 1429804	A	19760331	GB 1973-71	19730101
	US 3864137	A	19750204	US 1973-363671	19730524
PRAI	DE 1971-2165912		19711231		
	DE 1971-2114609		19720325		
	DE 1972-2214609		19720325		
	DE 1972-2227608		19720607		
	US 1972-318068		19721226		

L6 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1970:22308 CAPLUS
DN 72:22308
TI Retarding agent for epoxide resins
IN Lieske, Edgar; Weinrich, Erwin
PA Henkel und Cie. G.m.b.H.
SO Ger., Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1904934		19691120		
PRAI	CH		19680429		

L6 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1968:451781 CAPLUS
DN 69:51781
TI Thallium in organic synthesis. II. Acylation, aroylation, and tosylation of phenols and **carboxylic** acids

AU Taylor, Edward C.; McLay, G. W.; McKillop, Alexander
CS Princeton Univ., Princeton, N. J., USA
SO J. Amer. Chem. Soc. (1968), 90(9), 2422-3
CODEN: JACSAT
DT Journal
LA English

=> d abs 10

L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
AB Treating RSO2Cl (R = Ph, 4-MeC6H4) with R1CO2H (R1 = Et, Ph, 4-O2NC6H4) and Et3N or pyridine as catalyst in dioxane below 0.degree. gave 39-72% RSO2OCOR1 (I). PhNMe2 did not catalyze this reaction. I underwent similar reaction with R2CO2H (R2 = 4-O2NC6H4, PhCH2, 2-MeC6H4) at .apprx.0.degree. giving 35-63% R1CO2COR2.

=>